Appl. No. 10/622,840 Amdt. Dated 09/14/2006

Reply to Office Action of 06/14/2006

REMARKS / ARGUMENTS

For the convenience of the Examiner and clarity of purpose, Applicant has reprinted the

substance of the Office Action in 10-noint bolded and italicized font. Applicant's arguments

immediately follow in regular font.

Applicant's communication filed on 3/23/06 has been carefully considered by the examiner. The arguments advanced therein are persuasive with respect to the rejection of record, and those rejections are accordingly withdrawn. In view of a further consideration, however, a new rejection is set forth below.

This action is not made final

Applicant thanks the Examiner for his efforts on this file and for withdrawing the

previous rejections.

Claims 1-3, 6, 8, 10-16 are rejected under 35 U.S.C. 102(b) as being

anticipated by Hughes et al (US 4,642,480).

Regarding claim 1, Hughes discloses a low profile cable with high performance characteristic and figures 1-4, section (28A028b) for antenna) comprising', A cable body (4) having a foam core (25) having a low-dielectric constant expanded poly-vinylchloride foam sheet disposed on at least one surface of the foam core (25) (see two conductor (23-24) for constant PVC).

See figure 2, col.3, lines 30 to col.6, lines 1-57.

Applicant respectfully disagrees with the Office's application of the Hughes reference to

independent claim 1. As a threshold matter, Applicant notes that an anticipation rejection

requires that the Office present a prima facie showing that the Hughes reference discloses each

claim limitation arranged in the order claimed. See, e.g., Brown v. 3M, 265 F.3d 1349, 60

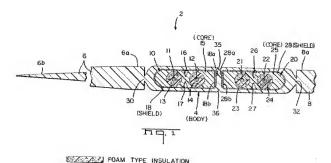
USPQ2d 1375 (Fed. Cir. 2001) ("to anticipate, every element and limitation of the claimed

invention must be found in a single prior art reference, arranged as in the claim"); C.R. Bard, Inc.

v. M3 Systems, Inc., 157 F.3d 1340, 47 USPQ2d 1225 (Fed. Cir. 1998) ("a finding of anticipation

requires that the publication describe all of the elements of the claims, arranged as in the patented device."); In re Bond, 910 F.2d 831, 15 USPQ2d 1566 (Fed. Cir. 1990)("These elements must be arranged as in the claim under review."). It is also improper to base anticipation on "substantial similarity" between the disclosure and the arrangement of claimed elements. See Jamesbury Corp. v. Litton Indus. Prods., Inc., 756 F.2d 1556, 225 USPQ 253 (Fed. Cir. 1985).

The Office appears to argue (see Fig. 1 from Hughes, below) that: 1) Hughes' EMI "shield" (28 or 18) is identical with Applicant's "telecommunication antenna" recited in the preamble to claim 1; 2) Hughes' insulating "core" (25 or 15) is identical with Applicant's "foam core;" and 3) Hughes' foam type insulation (13, 14, 23, or 24) is identical with Applicant's "low dielectric constant expanded PVC foam sheet."



Applicant respectfully traverses this rejection. First, the Hughes reference does not

Amdt. Dated 09/14/2006

Reply to Office Action of 06/14/2006

disclose a "telecommunications antenna" of any type and, therefore, Hughes cannot disclose or

teach a "panel" for a telecommunication antenna. Second, Hughes teaches that his cable should

never function as an antenna as its purpose is to transmit high frequency signals without

interference from other electromagnetic sources. Indeed, Hughes' cable uses an electromagnetic

interference ("EMI") shield 18 or 28 to prevent the cable from a functioning as an antenna,

(Col. 7, lines 2-23) Hughes specifically notes that it is undesirable for there to be any "gaps" in

the EMI shield, as such gaps could cause the cable to improperly function as an antenna.

Third, Hughes' "insulating core" 25 is not disclosed to be a "foam" structure. Hughes

discloses the insulating core 25 to be extruded PVC. (Col. 6, lines 29-37). Nowhere does

Hughes disclose or teach that it is desirable for this PVC core to be "foam." Applicant contends

that Hughes actually teaches away from the insulating core 25 having a foam structure. Hughes

clearly knows how to disclose a foam structure as the "foam type insulations" 13, 14, 23 and 24

are explicitly stated as being polypropylene or polyethylene "foam," (Col. 5, Lines 36-45).

Thus, if it was desirable for Hughes' insulating core 25 to be foam, Hughes would have said so. Also, Hughes discloses that the insulating core 25 is a structural component that gives strength

and protection to the other components of the cable. (Col 6, lines 18-37). It is likely that a foam

insulating core 25 would provide the desired strength and protection for Hughes' under-the-

carpet cable.

Lastly, while Hughes "foam type insulation 24" is disclosed to have a low dielectric

constant (Col. 5, lines 36-39), Hughes does not disclose that it can be made from PVC. Hughes'

Page 9 of 14

Amdt. Dated 09/14/2006

Reply to Office Action of 06/14/2006

foam type insulation 24 is disclosed to be made from only polypropylene or polyethylene, not

PVC.

Thus, for at least these reasons, the Office's application of Hughes to claim 1 does not

present a prima facie showing of unpatentability. No amendment to claim 1 has been made in

response to this rejection, and reconsideration and withdrawal of this rejection is requested.

Regarding claim 2, Hughes discloses comprising a cable comprising a mechanically interlocking (28a and 28b) together ends of cable. See figure 2,

col.6, lines 54-67.

Regarding claim 3, Hughes discloses wherein the foam core (25) comprises

polystyrene. See col.5, lines 45-60.

Regarding claim 6, Hughes discloses wherein the low-dielectric constant expanded poly- vinyl-chloride foam sheet is attached on the at least one

explaned poly-viny-entorate foam sheet is and ched on the at teast one surface of the foam core by an adhesive or a tape. See figure 1, col.5, lines I-

Regarding claim 8, Hughes inherently discloses wherein the low-dielectric constant expanded poly-vinyl-chloride foam sheet has a dielectric constant

equal to or less than two, because Hughes discloses that, this cable has a constant PVC.

Claims 2, 3, 6 and 8 depend from independent claim 1 and are patentable for at least the

reasons presented above for claim 1. In addition, Applicant would point out that: 1) Hughes does

not disclose insulating core 25 to be made from polystyrene foam; and 2) Hughes does not

disclose that its low dielectric foam material (i.e., insulating core 24) is expanded PVC foam or

that it is attached to anything with an adhesive or tape. No amendments to claims 2, 3, 6 or 8

have been made in response to these rejections. Reconsideration and withdrawal of these

rejections is requested.

Page 10 of 14

Amdt. Dated 09/14/2006

Reply to Office Action of 06/14/2006

Regarding claim 10, Hughes discloses a plurality of concealment panels (18 and 28) for concealing a portion of the antenna, the concealment panels (18 and 28) at least partially composed of an expanded poly-vinyl-chloride foom and inherently discloses a dielectric constant equal to or less than two (because Hughes discloses this cable has a constant PC). See figure 2, col.3.

lines 30 to col.6, lines 1-57.

Applicant incorporates its arguments presented above with respect to claims 1-3, 6, and

8. In addition, claim 10 requires that the plurality of "panels" conceal a portion of the antenna.

Under the Office's application of Hughes, EMI shield 18 or 28 is the "antenna." Under the

Office's construction, the antenna would be on the outside of the "panel" and, therefore, not

concealed. Also, as discussed above, Hughes does not disclose PVC foam. Also, Hughes

discloses that the extruded PVC insulation 25 (which the Office says is identical to Applicant's

"low dielectric constant expanded PVC foam sheet") has a dielectric constant that is greater than

Hughes' low dielectric foam type insulating core 24. (Col. 6, lines 14-18) Lastly, Applicant

cannot agree with the Office's conclusion that Hughes' extruded PVC insulation (e.g.,

insulation 25) "inherently discloses a dielectric constant equal to or less than two (because

Hughes discloses this cable has constant PVC)." Pursuant to MPEP 2112, the Office is

requested to provide objective evidence or cogent technical reasoning to support the conclusion

of inherency.

Thus, for at least these reasons, the Office's application of Hughes to claim 10 does not

create present a prima facie showing of unpatentability. No amendment to claim 10 has been

made in response to this rejection, and reconsideration and withdrawal of this rejection is

requested.

Page 11 of 14

Amdt. Dated 09/14/2006

Reply to Office Action of 06/14/2006

Regarding claim 11, Hughes discloses comprising a cable comprising a mechanically interlocking (28a and 28b) together ends of cable. See figure 2, col.6, lines 54-67.

Regarding claims 12-13, Hughes discloses the cable comprise a first sheet of expanded polyvinyl-chloride foam and a foam core disposed on a side of the first sheet of expanded not-vinyl-chloride foam. See ficures 1-2.

Regarding claim 14, Hughes discloses wherein the foam core (25) comprises polystyrene. See col.5, lines 45-60.

Regarding claim 15, Hughes discloses wherein the core (25) comprises a second sheet of expanded poly-vinyl-chloride foam disposed on side of form core opposing the first sheet. See feueres 1-2.

Regarding claim 16, Hughes discloses wherein the low-dielectric constant expanded poly-vinyl-chloride foam sheet is attached on the at least one surface of the foam core by an adhesive or a tape. See figure 1, col.5, lines 1-15.

Claims 11-16 depend from independent claim 10 and are patentable for at least the reasons presented above for claim 10. In addition, Applicant would point out that: 1) Hughes does not disclose insulating core 25 to be made from polystyrene foam; 2) Hughes does not disclose a PVC foam of any type; 3) Hughes does not disclose that its low dielectric foam material (i.e., insulating core 24) is expanded PVC foam or that it is attached to anything with an adhesive or tape. No amendments to claims 11 - 16 have been made in response to these rejections. Reconsideration and withdrawal of these rejections is requested.

4. Claims 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hughes et at (US 4,642,480).

Regarding claims 17-18, Hughes essentially discloses the claimed invention but does not explicitly disclose that, the cubie define curved surface by the thermoforming or vacuum forming a substantially flat sheet and the curved surface have a smaller thickness at edges of the panels than a at center of panels. It would have been an obvious matter of design choice to employ Hughes in any desired interest a curved surface by the thermoforming or vacuum forming a substantially flat sheet and the curved surface have a smaller thickness at edges of the panels than a at center of panels in order to maximize the usage of his invention, since applicant does not disclose that, all

Amdt. Dated 09/14/2006

Reply to Office Action of 06/14/2006

of these limitations can solve any stated problem and for any particular purpose. Therefore, it appears that the invention would not provide any improvement but merely apply the invention in different presentation.

Claims 17 and 18 depend from independent claim 10 and are patentable for at least the reasons presented above for claims 10 - 16. No amendments to claims 17 or 18 have been made in response to these rejections. Reconsideration and withdrawal of these rejections is requested.

 Claims 4-5, 7 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant thanks the Examiner for his efforts in reviewing the patentability of these claims. However, in light of the arguments presented above with respect to claim 1 (from which these claims depend), Applicant has chosen not to re-present these claims at this time.

The following is a statement of reasons for the indication of allowable subject matter: Prior art does not teach, a foam core has first and second sides, and wherein a first low-dielectric constant expanded poly-vinyl-chloride foam sheet is disposed on the first side and a second low-dielectric constant expanded poly-vinyl-chloride foam sheet is disposed on the second side recited in dependent claim 4.

For at least the reasons presented above, Applicant agrees that Hughes does not render claim 4 unpatentable.

Prior art does no teach that, wherein the low-dielectric constant expanded polyvinyl-chloride foam sheet has a thickness of approximately 4 to 10 and wherein the foam core has a thickness of approximately 2-inches or urethane forming a layer between the low-dielectric constant expanded polyvinyl-chloride foam sheet and the foam core and having a thickness of approximately 3 to 10-mils in dependent claims 7 and 9.

For at least the reasons presented above, Applicant agrees that Hughes does not render claims 7 and 9 unpatentable.

Amdt. Dated 09/14/2006

Reply to Office Action of 06/14/2006

CONCLUSION

Claims 1 - 26 are currently pending in this application, with claims 19 - 26 being

withdrawn from consideration. Claims 1 - 3, 6, 8, and 10 - 15 stand rejected and claims 4, 5, 7

and 9 are objected to.

No claim has been amended in response to the rejections or objections, and Applicant

submits that each claim presented herein is patentable. A timely notice of allowance is

respectfully requested.

The Commissioner is authorized to charge to deposit account 12-1322/021961-015US

any fees necessary to make this and related papers, if any, timely and effective.

Applicant thanks the Examiner for his consideration and effort on this file. If there are

any questions or if additional information is needed, the Examiner is invited to telephone or

email the undersigned.

Respectfully submitted,

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By /abdir/

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Page 14 of 14